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Manelli, Denison & Selter PLLC
Customer No. 20736
Telephone: (202) 261-1000

Our Facsimile #: (202) 887-0336

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In re PATENT Application of

Group Art Unit: 2624

Application No. 09/220,970

Examiner: Chen, W.

Filed: 12/23/98

For: A METHOD AND SYSTEM FOR PATTERN RECOGNITION AND PROCESSING

This facsimile confirms that during a telephone conference with Examiner Chen today, Examiner Chen was given permission by Applicant's counsel to copy pages 26 and 64 of the claims on appeal section of the February 9, 2001 Appeal Brief and insert those copied pages into the claims section of presently pending April 3, 2001 Appeal Brief.

Applicant's counsel thanks Examiner Chen for the courtesy of the telephone call and copying these pages.

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adding at least two of said Fourier components together to form at least one Fourier series in Fourier space;

sampling at least one of said Fourier series in Fourier space with a filter to form a sampled Fourier series;

modulating said sampled Fourier series in Fourier space with said filter to form a modulated Fourier series;

determining a spectral similarity between said modulated Fourier series and another Fourier series;

determining a probability expectation value based on said spectral similarity;

generating a probability operand based on said probability expectation value; and

selecting a desired value for said probability operand, wherein recognition of a pattern in said information is obtained when said probability operand having said desired value.

161. A computer-readable medium according to claim 160, wherein said data is inputted from a transducer which transduces physical data into computer readable data.

162. A computer-readable medium according to claim 160, further comprising adding said modulated Fourier series and said another Fourier series to form a string of Fourier series in Fourier space when said probability operand has said desired value.

163. A computer-readable medium according to claim 162, further comprising storing said string of Fourier series to a memory.

164. A computer-readable medium according to claim 160, wherein said another Fourier series represents known information.

311. A data structure according to claim 307, wherein the transducer has n levels of subcomponents and is assigned a master memory pointer with n + 1 sub pointers in a heirarchical manner that parallels and corresponds to the n levels of the transducer subcomponents wherein the stream of transduced data objects from the n th level transducer sub component provides said plurality of input data objects that are stored as memory data objects as a function of time in the n+1 sub pointer wherein the identity of the memory pointer encodes the input context which represents the context of the characteristics according to the specific transducer or transducer subcomponent.

312. A data structure according to claim 307, further comprising a predominant configuration data object being a sum of associated ones of said plurality of order formatted data objects.

313. A data structure in a memory for access by a computer program for efficient recognition of a pattern in information comprising data stored in the memory, the data structure comprising:

a plurality of transduced data objects, each of said plurality of transduced data objects providing an input data object representative of characteristics received from a respective one of a plurality of transducers acting on a signal provided by characteristics encoded as a Fourier series in Fourier space, wherein said input data objects allows associations among and relational pattern of said input data objects by spectral analysis to achieve recognition of a pattern in information, while preserving input context of said input signal including an identity of said respective one of said plurality of transducers.

314. A data structure according to claim 313, further comprising a plurality of association data objects, each of said plurality of association data objects being a sum of associated ones of said plurality of input data objects.